

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 19, 2013

### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-103306, issued to CNX GAS COMPANY LLC , is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: PHL3BHS

Farm Name: PHILIPPI DEVELOPMENT, INC

API Well Number: 47-103306

Permit Type: Horizontal 6A Well

Date Issued: 11/19/2013

Promoting a healthy environment.

### PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

#### **CONDITIONS**

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 6. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 7. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

Page 1 of 3

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

					001	06	540
1) Well Operator:	CNX Gas	s Compa	ny LLC	494458046	Barbour	Pleasant	Philippi
				Operator ID	County	District	Quadrangle
2) Operator's Well 1	Number:	PHL3BHS		W	Vell Pad Nam	ne: PHL3HS	
3 Elevation, curren	t ground:	1444'	Ele	vation, proposed p	ost-construc	tion:	1445'
4) Well Type: (a) C	as		Oil	Underground	l Storage		_
	Other					3	
(b) I:		nallow		Deep			
		orizontal					
5) Existing Pad? Ye	s or No:	NO					
6) Proposed Target	Formation(	s), Depth(	s), Anticipate	ed Thicknesses and	d Associated	Pressure(s):	
Formation - Marcellus, De	pth - 7545', Thickr	ness - 90', Pres	sure - 3000#				
7) Proposed Total V	ertical Dep	th: <u>7</u>	735'		*		
8) Formation at Total	al Vertical I	Depth:	Huntersville Che	rt			
9) Proposed Total M	leasured De	epth:	17,920'				
10) Approximate Fr	esh Water S	Strata Dep	oths: 32	8', 544', 665'			
11) Method to Deter	rmine Fresh	Water D	epth: Re	ference Offset Wells			
12) Approximate Sa	ıltwater Dep	oths:	None Reported				
13) Approximate Co	oal Seam D	epths:	544', 665'				
14) Approximate De	epth to Poss	sible Void	(coal mine, l	carst, other):	None Antic	ipated	
15) Does proposed value adjacent to an ac				irectly overlying o d depth of mine:	r Yes, S	entinel Min	e 544' & 665'
16) Describe propos	sed well wo	rk: Dr	ill and stimulate new ho	rizontal Marcellus well. Well to be	drilled to a TMD of 179	20'. Well to be drilled to	a TVD of 7735' for logging
purposes, formation at TVD - F	luntersville Chert. W	ell will be plugged	d back to an approximat	e depth of 6735' (approximate du	e to exact kick off point	being unknown). Plugg	ing back will be done using
the displacement method and C	ass A type cement. I	f an unexpected v	oid is encountered, plan	will be to set casing at a minimum	of 30' past void and cer	ment to surface with appr	oved Class A type cement.
17) Describe fractur	ing/stimula	ting meth	ods in detail:				
The stimulation will be mul	tiple stages divide	ed over the later	ral length of the well.	Stage spacing is dependen	t upon engineering	design. Slickwater fr	acturing technique will
be utilized on each stage u	sing sand, water,	and chemicals.					
				MAY 2 1	2013		
18) Total area to be	disturbed, i	ncluding	roads, stockp	ile area, pits, etc. (	-	25.6 Acres	
19) Area to be distur		100	₹			3	

WW - 6B (3/13)

20)

103306

CASING AND TUBING PROGRAM

CASING AND TUBING PROGRAM

Tada

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	N	J-55	94#	80'	80'	Grout to Surface
Fresh Water	13 3/8"	N	J-55	54.5#	750'	750'	CTS w/ Approved Class A Type Cement
Coal							
Intermediate	9 5/8"	N	J-55	36#	2300'	2300'	CTS w/ Approved Class A Type Cement
Production	5 1/2"	N	P-110	20#	17920'	17920'	2400 cu. ft. W/ 50/50 POZ Lead & Class A Tall
Tubing	2 3/8"	Ν	J-55	4.7#	8135'	8135'	
Liners				-			

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal						
Intermediate	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Production	5 1/2"	8 3/4" & 8 1/2"	0.361	12640	Class A Type	1.26
Tubing	2 3/8"	5 1/2" csg	0.190	7700		
Liners						

**PACKERS** 

Kind:	None	
Sizes:	None	received
Depths Set:	None	MAY 2 1-2013

21	) Describe centralizer placement for each casing string. Conductor - No centralizers used. Fresh Water &
	Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Intermediate - Bow spring
	centralizers one on the first two joints and every fourth joint until inside Surface casing. Production - Rigid bow spring
	centralizer on first joint then every 2 joints (free floating) through the lateral and the curve.
	(Note: cementing the 5 1/2" casing completely in open hole lateral and curve.)
22	2) Describe all cement additives associated with each cement type.  Conductor - 2% CaCl2.
	Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production: 2.6% Cement extender, 0.7% Fluid Loss Addative
	0.5% High Temperature Retarder, 0.2% Friction Reducer.
23	) Proposed borehole conditioning procedures.  Conductor - The hole is augered/drilled w/ air and casing ran in air. Apart From
	insuring the hole is clean via air circulation at TD there are no other conditioning procedures. Fresh Water/Coal - The hole is drilled
	w/ air and casing is ran in air. Once casing is on bottom the casing shoe will be cleared with fresh water and gel prior to cementing.
	Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom the casing shoe will be cleared with fresh
	water and gel prior to cementing. (Note: Drilling soap may be utilized if the hole gets wet/damp during the drilling of all air holes with the
	exception of the Conductor). Production - The hole is drilled with synthetic oil base mud and once at TD the hole is circulated at a
	drilling pump rate until the hole is clean. Once casing is ran the hole is circulated for a min. of one hole volume prior to pumping cement.

\*Note: Attach additional sheets as needed.

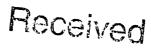
Received

MAY 2 1 2013

Office of Oil and Gas WV Dept. of Environmental Protection

### **Cement Additives**

- Conductor 2% CaCl2
- Freshwater/Coal 2% CaCl2
- Intermediate 2% CaCl2
- Production
  - o 2.6% Cement extender
  - o 0.7% Fluid Loss Additive
  - o 0.5% High Temperature Retarder
  - o 0.2% Friction Reducer



MAY 2 1 2013

Office of Oil and Gas WV Dept. of Environmental Protection

My Commission Expires September 15, 2021

WW-9
(3/13)

	P	age	of
API Number 47 -	001	-	
Operator's	Well No.	PHL3BHS	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ CNX Gas Company LLC OP Code 494458046
Of Code
Watershed (HUC 10) Foxgrape Run Quadrangle Philippi
Elevation 1,444.50' County Barbour District Pleasant
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _x Will a pit be used for drill cuttings? Yes No _x If so, please describe anticipated pit waste: N/A Will a synthetic liner be used in the pit? Yes No _x If so, what ml.? N/A Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number )
Reuse (at API Number)  Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Recycle on other wells on the same pad or adjacent pads
Will closed loop system be used? Yes
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air and oil based mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Bactericide, Polymers and Weighting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? MeadowFill, Northwestern Landfill, Max Environmental Yukon Landfill and Bulger Landfill
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature
Company Official (Typed Name) Jeremy Jones
Company Official Title Designed Agent - General Manager WV Gas Operations
MAY 2 1 2013
Subscribed and sworn before me this 9th day of May , 20 13  Notary Public STATE OF WEST VIRGINIA  CAROLINDA FLANAGAN PO Box 603  Lumberport WV 26386

Form WW-9

Operator's Well No. PHL3BHS

CNX Gas Company LLC			
Proposed Revegetation Treatment: Acres D	isturbed 25.6	Prevegetation p	н 6.5
Lime Tons/acre			
Fertilizer (10-20-20 or equivalent)		minimum)	
Mulch hay or straw @ tv	VO Tana/2000	·	
Mulch 1 day of the day of the			
	Seed Mixtures		
Area I Seed Type lbs/acre		Ar Seed Type	rea II lbs/acre
Orchard Grass 25	Orcha	ard Grass	25
Birdsfoot Trefoil 15		foot Trefoil	15
Landino Clover 10	Landi	no Clover	10
Plan Approved by:	ut		
Comments.			
	,		
Title: LNSIPLE ton	Late:	<del>Served</del>	
Title: LNSpertor Field Reviewed? Yes		ceived	
		/ 2 1 2012	

MAY 2 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

### west virginia department of environmental protection



### Water Management Plan: Primary Water Sources



WMP-01309

API/ID Number:

047-001-03306

Operator:

Consol Energy - WV

PHL3BHS

### Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- •Identification of sensitive aquatic life (endangered species, mussels, etc.);
- •Quantification of known existing demands on the water supply (Large Quantity Users);
- •Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED JUN 3 0 2013

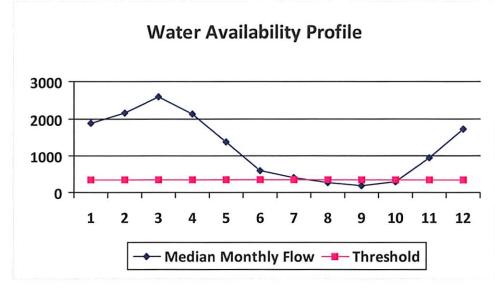
### Source Summary

API Number: 047-001-03306 Operator: Consol Energy - WV WMP-01309 PHL3BHS Stream/River Barbour **Consol Energy Tygart Valley River** Owner: Source Max. daily purchase (gal) Intake Latitude: Intake Longitude: **End Date** Total Volume (gal) Start Date 4/1/2015 11,000,000 39.190421 -80.017423 4/1/2014 Regulated Stream? Ref. Gauge ID: 3054500 TYGART VALLEY RIVER AT PHILIPPI, WV Min. Gauge Reading (cfs): Max. Pump rate (gpm): 355.01 Min. Passby (cfs) 344.41 1,470 **DEP Comments:** 

### **Source Detail**

WMP-01309	API/ID Number:	047-001-03306	Operator:	Consol Er	nergy - WV
	F	PHL3BHS			
ource ID: 20124 Source Name Tygar	t Valley River		Source Lat	itude: 39.	190421
Consc	ol Energy		Source Long	itude: -80	.017423
HUC-8 Code: 5020001		An	ticipated withdrawal sta	art date:	4/1/2014
Drainage Area (sq. mi.): 931.43 County: Barbour  Endangered Species?			Anticipated withdrawal end date:  Total Volume from Source (gal):		
✓ Proximate PSD? Taylor Coun		Max. Simultaneous Trucks: 0			
✓ Gauged Stream?		Max.	Fruck pump ra	ate (gpm)	
Reference Gaug 3054500	TYGART VALLEY R	IVER AT PHILIPPI, WV	100 100 100 100 100 100 100 100 100 100		
	1.00		Gauge Thresh	nold (cfs):	341

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	1,901.06	361.51	1,542.64
2	2,155.51	361.51	1,797.09
3	2,600.93	361.51	2,242.51
4	2,132.23	361.51	1,773.82
5	1,375.48	361.51	1,017.07
6	586.10	361.51	227.69
7	402.01	361.51	43.59
8	280.57	361.51	-77.84
9	177.42	361.51	-181.00
10	286.75	361.51	-71.66
11	950.89	361.51	592.48
12	1,738.34	361.51	1,379.92



Water Availability Assessment of	of Location
Base Threshold (cfs):	347.50
Upstream Demand (cfs):	10.73
Downstream Demand (cfs):	0.00
Pump rate (cfs):	3.28
Headwater Safety (cfs):	0.00
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	355.01
Passby at Location (cfs):	347.50

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

### west virginia department of environmental protection



### Water Management Plan: Secondary Water Sources



WMP-01309

API/ID Number

047-001-03306

Operator:

Consol Energy - WV

PHL3BHS

#### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

### Lake/Reservior

Source ID:	20125	.25 Source Name	Little Hackers Creek Impoundment (WV83489)			Source start date:		4/1/2014
						Source end date		4/1/2015
		Source Lat:	39.1889	Source Long:	-80.0653	County	Bar	bour
		Max. Daily Pu	rchase (gal)		Total Volu	ume from Source (gal):	1	1,000,000
	DEP Co		ittle Hackers Cr entinel Mine	reek Impoundmei	nt (WV83489) u	sed by Wolf Run Mi	ning Co	ompany -

Consol Energy - WV WMP-01309 API/ID Number 047-001-03306 Operator:

PHL3BHS

### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site	impound	ment
------------	---------	------

Source ID:	20126	Source Name	Warder North	Impoundment		Source start date: Source end date:		4/1/2014 4/1/2015
		Source Lat:	39.192505	Source Long:	-80.025198	County	Ва	arbour
	Max. Daily Purchase (gal)			Total Volur	olume from Source (gal): 11,000,000			
	DEP Co	omments:						

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

39.19097

Warder South Impoundment 4/1/2014 Source start date: 4/1/2015 Source end date: -80.025198 Barbour Source Long: County 11,000,000 Total Volume from Source (gal):

**DEP Comments:** 

Source Lat:

Max. Daily Purchase (gal)

Source ID: 20127 Source Name

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-190

Reference: WMP-189

WMP-01309 API/ID Number 047-001-03306 Operator: Consol Energy - WV

PHL3BHS

### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID:	20128	Source Name	Alton 1 Freshwater Impoundment			Source start date:		4/1/2014
						Source end	date:	4/1/2015
		Source Lat:	38.794961	Source Long:	-80.184542	County	U	pshur
		Max. Daily Pu	rchase (gal)		Total Volu	me from Source (g	al):	11,000,000
	DEP Co	omments:						

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-194

Source ID: 20129 Source Name Alton 2 Freshwater Impoundment 4/1/2014 Source start date: 4/1/2015 Source end date: 38.806146 -80.195108 County Upshur Source Lat: Source Long: 11,000,000 Total Volume from Source (gal): Max. Daily Purchase (gal) DFP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-195

WMP-01309 API/ID Number 047-001-03306 Operator: Consol Energy - WV

### PHL3BHS

### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

### **Recycled Frac Water**

Source ID: 20130 Source Name ALT 1 Flowback Pit Source start date: 4/1/2014

Source end date: 4/1/2015

Source Lat: 38.793967 Source Long: 80.183196 County Barbour

Max. Daily Purchase (gal) Total Volume from Source (gal): 11,000,000

**DEP Comments:** 

Source ID: 20131 Source Name PHL 1 Flowback Pit Source start date: 4/1/2014

Source end date: 4/1/2015

Source Lat: 39.192372 Source Long: -80.018833 County Barbour

Max. Daily Purchase (gal)

Total Volume from Source (gal): 11,000,000

DEP Comments:

WMP-01309 API/ID Number 047-001-03306 Operator: Consol Energy - WV

#### PHL3BHS

### Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Source ID:	20132	Source Name	PHL1; PHL13; PHL29; PHL4; ALT2; AL	Source start	Source start date:	
		Source Lat:	Source Long:	County		
	Max. Daily Purchase (gal)			Total Volume from Source (g	al):	11,000,000
	DEP Co	omments:				

plat spotted



## Received

MAY 2 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

LAND SURVEYING SERVICES 21 CEDAR LANE BRIDGEPORT, WV 26330 PHONE: 304-842-2018 OR 5762

DRAWINGS TO ACCOMPANY FORM WW-9
CNX GAS COMPANY LLC
P. O. BOX 1248
JANE LEW, WV 26378
WATERSHED: FOXGRAPE RUN
DISTRICT: PLEASANT COUNTY: BARBOUR
QUADRANGLE: PHILIPPI WELL NO.: PHL3BHS
DATE: 03/28/13 PAGE 4 of 4

